IN THE CLAIMS

1. (Currently Amended) A method process for the preparation of H_2O_{2i} wherein[[,]] H_2O_2 is produced

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[[by]]a first reactionstage, electrolysis converts[[ing]] H_2SO_4 into H_2 and $H_2S_2O_8$ and then

in a second reactionstage, said $H_2S_2O_8$ formed in first reaction, is reacts[[ed]] with H_2O in a second reaction to form H_2O_2 and H_2SO_4 , and wherein

a membrane performs at least one selected from of a group consisting of the separation of said H_2 from said $H_2S_2O_8$, separation of said H_2 from a mixture of said $H_2S_2O_8$ and said $H_2S_2O_8$, separation of said H_2O_2 from said $H_2S_2O_8$, separation of said H_2O_2 from said $H_2S_2O_8$, separation of said H_2O_2 and H_2O_3 from said $H_2S_2O_8$, separation of said $H_2S_2O_8$ and said $H_2S_2O_8$, separation of said $H_2S_2O_8$ and said $H_2S_2O_8$, separation of said $H_2S_2O_8$ and said $H_2S_2O_8$ and any combination therein is performed with a membrane

- 2. (Currently Amended) The methodprocess of claim 1, wherein the first reaction closes not go to completion and wherein, a mixture of said H₂SO₄ and said H₂S₂O₈ is reacted with H₂O in the second reaction stage.
- 3. (Currently Amended) The methodorocess of claim 1, wherein said membrane is constructed comprises organic materials.
- 4. (Currently Amended) The method process of claim 1, wherein said membrane is constructed comprises inorganic materials
- 5. (Currently Amended) The method<u>process</u> of claim 1, wherein said H₂SO₄ [[in the]]from said second reactionstage is recycled to [[the]]said first reactionstage.
- 6. (Currently Amended) The method<u>process</u> of claim 1, wherein said electrolysis is performed across an electrically charged conductive membrane.
- 7. (Currently Amended) The <u>methodprocess</u> of claim 1, wherein said electrolysis is performed with electrodes.

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- 8. (Currently Amended) The methodorocess of claim 7, wherein said electrodes are made of comprise at least one selected from the group consisting of zirconium, hastelloy, ceramic[[and]], titanium and any combination therein.
- 9. (Currently Amended) The methodprocess of claim 1, wherein at least one of [[the]]said separation [[processes]]is performed with distillation.
- 10. (Currently Amended) The methodorocess of claim 9, wherein said distillation separates said H₂ from at least one of said H₂SO₄ and or said H₂So₂O₈.
- 11. (Currently Amended) The method<u>process</u> of claim 9, wherein said distillation separates said H₂O₂ from at least one of: said H₂SO₄ and <u>for said H₂S₂O₈.</u>
- 12. (Currently Amended) The methodorocess of claim 9, wherein said distillation separates said H₂O from at least one of said H₂SO₄ and lor said H₂S₂O₈.
- 13. (Currently Amended) The methodorocess of claim 1, wherein said second reactionstage contains an excess of said H₂O, and wherein

an aqueous concentration of said H₂O₂ is generated.

- 14. (Currently Amended) The methodorocess of claim 1, wherein H₂O is added to said H₂O₂ from said second reaction stage.
- 15. (Currently Amended) The method<u>process</u> of claim 1, wherein there is no vehicular transportation of said H₂O.
- 16. (Currently Amended) The method<u>process</u> of claim 1, wherein said H₂ produced in the first reaction is utilized in a fuel cell to generate electricity.
- 17. (Currently Amended) The method process of claim 16, wherein at least a portion of said electricity is used for the electrolytic conversion of said H_2SO_4 into said H_2 and said $H_2S_2O_8$.

Please cancel claims 18 through 34.